GIVES CHEAPER IRON

Single Heating Method Also Turns Out a Finer and Stronger Product.

DETAILS KEPT SECRET

DETROIT, Oct. 16 .- The announcement of the Ford Motor Company officials that gray and malleable iron of the highest grade will be made at their plant direct from the ore heralds the accomplishment of that which hitherto has been regarded as impossible

Not only has this fine gray and malleable fron been produced directly from initial heat of the blast furnace but the iron made in this manner, according to the Ford engineers, is of finer quality and of more strength than the old iron made from the blends of the blast furnace products. Gray and malleable iron with a test of 28,000 to 30,000 pounds to the square inch is regarded as good fron. That which has been produced by the Ford organization has a test of 33,000

Heretofore the process of producing finished gray or malleable fron was surrounded with uncertainty and complications, which is shown by the blast furnace yards being stocked with great quantities of different kinds of iron-the varied product of that furnace. yards of the foundries also show the accumulation of large quantities of dif-ferent kinds of iron, which must be selected from to obtain somewhere near a given product in finished gray iron or malleable castings.

Ford Starts Experiments.

Several months ago Mr. Ford, together with some of his manufacturing or-ganization, was visiting a few of the large iron and steel industries of the East when the question arose why it was necessary to reheat and remelt the products of the blast furnace, the first

nversion of iron ore.
"Is it not possible to get the kind of on you want directly without the uste of that initial heat?" was Mr.

Ford's inquiry.

Thereupon he was informed that it "couldn't be done." Mr. Ford smiled and, turning to his engineer, said: "Because it has not been

done is all the more reason why we should try. Go to it." To get all these elements reduced with the initial heat and at the same time retain the desirable properties was the problem given to the Ford organization. The organization went to work quietly here in Detroit. The process was more than a laboratory affair. Sixteen tons of

iron was used in the initial trials.

By and by the results showed the same as when Mr. Ford was informed that a light car would not be a suc-cess, that the use of vanadium steel in an automobile was not practicable. "It can't be done," was said to both these

When the success of the continued experiments was announced to Mr. Ford be smiled again. He wasn't at all surprised that it "had been done." An idea of what this change means de Ford Motor Company may be distributed when it is understood that this uses approximately 700 tons of gray and malleable iron daily. In reducing the ore the base of all finished iron and steel is found, and the blast the most economical way to nplish it, and coke is the least ex-ve fuel. From this come gray iron,

them by remelting, this calling for two heatings of the iron, the first being when it came from the ore, and the second to bring about this condition. in the cupola. The Ford process omits the second melting entirely. "With the problem before bankers and railroad managements of restoring the

the method of putting this finished blast furnace iron into fine gray or malleable iron, as the case may be. It has brought into play most of the processes now used in steel making in such a way that conomy can be effected so that a saving is obtained over the present cupola practice of remelting.

sobtained over the present cupola practice of remelting.

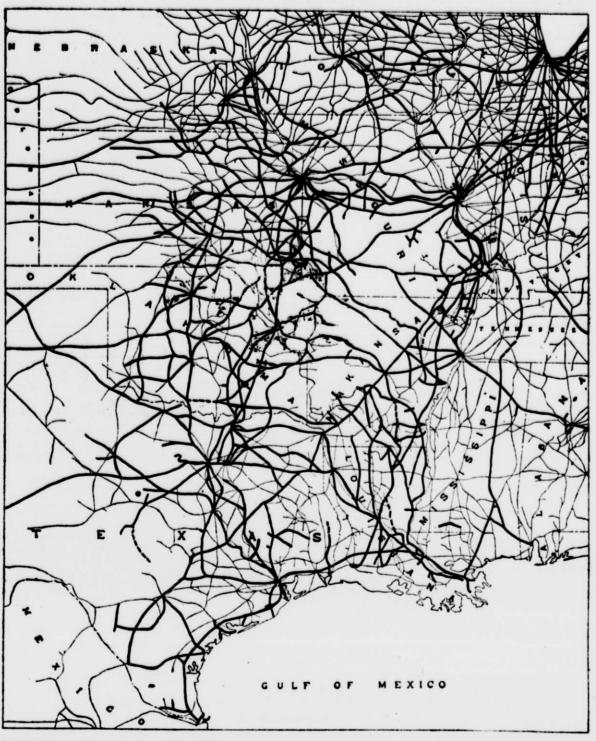
The elements that have been hard to control heretofore with any degree of economy, carbon manganese, silicon, phosphorus and sulphur, are eliminated or reduced in a few minutes to the point desired or can be brought up to that point, as the case may be, at a very minimum expenditure of time and energy. From the time the iron ore is but into the blast furnace until the finished metal is passed only one heat is point, as the case may be, at a very minimum expenditure of time and energy. From the time the iron ore is put into the blast furnace until the finished metal is passed only one heat is

The Ford company has no immediate intention to reveal the full details of the new process.

The Ford company has no immediate intention to reveal the full details of the new process.

Aviator Killed in Looping.

NEW FORD PROCESS RECEIVERS NOW HOLD EIGHTY-TWO OF THIS COUNTRY'S RAILROADS TO VOICE TAX VIEWS



ceivers. The only roads of any importance held by shown.

THE above map, which shows only 32 per cent. of receivers that are not on the map are the Western the railroad mileage of the country, covering Pacific, having 946 miles of track; the Colorado the Southwest and some additional territory, in- Midland, 338 miles; the Georgia and Florida, 350 cludes 66 per cent., or nearly 28,000 miles of a total miles, and the Algoma Central and Hudson Bay, 332 of 42,000 miles of road that are in the hands of re- miles. A part of the Pere Marquette system is

Bankrupt Lines Have Onesixth of the Mileage of Great Systems.

Second Melting Omitted.

The only way to get a uniform product before the Ford discovery was to sort out the various kinds of fron that the biast furnace produced and then blend them by remelting, this calling for two heatings of the iron, the first being with the control of the property of the property of the product before the Ford discovery was to sort and them by remelting, this calling for two heatings of the iron, the first being when the first being with the control of the mileage of the rail-odes in the United States is being operated by receivers, according to the roads in receivers' hands are in the Southwest. The Gazette believes that "pernicious State regulation" the Roads Held by Roads Held by

the second melting entirely.

Gray from is used in parts where flexibility is not required, for cylinders and machinery construction in general. Maintended in the machinery construction in general. Maintended in the conditions which are second in the condition of the co eable from is used where a light degree of flexibility is required and steel where strength, flexibility and hardness are necessary. It has been put down as impossible to put blast furnace from into finished gray from or finished malleable direct. It is practical in steel making when the Bessemer or duplex process is used.

The Ford Motor Company has evolved the method of putting this finished blast. "The roads in the hands of receivers."

van. Other officers elected are William
F. Hendrickson of Jamaica, vice-president: Rodman Richardson of Flushing, secretary, and Emiel Rathgaber of Flushing, treasurer. Managers, Clinton T. Roe, chairman: Eugene N. L. Young, William Rasquin, Jr., H. P. Williams, Joseph J. Tuohy, Denis O'Leary and George B. Hanivan. Librarian, Frederick Rauber of College Point.

Aviator Killed in Looping. Aviator Killed in Looping.

Buenos Avres. Oct. 16.—Francisco or a business depression. If you are to reduce the fixed charges by persuading part of the debtors of the company

1	to become owners with the business risks
1	that ownership must assume, you have
ä	got to hold out prospects of business
	profits which are higher than would be
	the interest ordinarily demanded by a
1000	"All the unbounded optimism that is to

be found in Oklahoma and Texas cann persuade an investor that a Southwe LAWMAKERS ARE BLAMED good unless there is some substant assurance that the railroads as well other forms of industry are to be

The following is a list of the eigh

"With the problem before bankers and railroad managements of restoring the dankers and railroad managements of restoring the 41,888, and a total capitalization of \$

	20 20 20 20 20 70	utstanding stock.	funded debt.	
,	Apalachicola Northern	\$3,900,000	\$2,000,000	
54	Arkansas, I.a. & Gulf Arkansas Southeastern	1.230.100	1.239,000	
	Arkansas Southeastern	500,000	500,000	
	Atlanta, Birm. & Atlantic	35,000,000	18,533,006	
	Beaumont, Sour L. & W.	85,900	2,607,251	
	Birm., Columbus & St. A	4,500,000	250,000	
	Buffalo & Susquehanna	501,200	175,000	
	Buffalo & Susquehanna	10,000,000	7,959,000	å
•	Cape Girardeau Northern	110,000	1,500,000	
	Chi., & Eastern Illinois	25.817,800	63,155,000	
	Chi., Anamosa & Nor	112,000 (Not pub.	
	Chi., Peoria & St. Louis	4,000,000	2,000,000	i
4	Cin. Blufton & Chicago. Cin. Hamilton & Dayton.	1.125,000	1,500,600	å
-	Cin. Hamilton & Dayton.	8.248.575	62,125,640	
	Colorado Midland	19,900,000	9.132.000	
	Columbus & Southern	2,000,000	565,909	
	Dansville & Mt. Morris.	50,000	155,000	
	Denver, Lar. & No. West.	29,072,506	1,509,000	
1	Fitzgerald, Ocilia & Brox Florida, Alabama & Gulf	300,000	150,000	
	Florida Central	50,000	500,000	
1	Ft. Worth & Rio Grande. Gould Southwestern.	(See St. L. 51,000	& S. F.	
*	Greenville & Knoxville.	260,000	450,000	
	Inter. & Great Northern	4.822.000	24,584,500	
	lowa & Omaha Short L.	T-10 10100	175 000	
	Kane & Elk	75,000	9.600	
	Kansas City & Memphis	852,000	796,000	
	Kansas, Southern & Gulf	1,500,000	****	
	Laberty White	300,000	250,000	ł
	Louisiana & Northwest.	2,300,000	2,180,000	
	McCrory & Becdeville So.		27.68.11	d
	Macon & Birmingham	500,000	500,000	j
	Marietta, Col. & Cleveland Missouri & N. Arkansas.	2.0.000	50,000	1
	Missouri & N. Arkansas.	8,040,000	5.310,000	
	Missouri, Okla & Gulf Muscatine Nor & South New Herlin & Winfield	8.261,000	8.361,000	
	New Health & Wandeld	1,000,000	890,000	å
	New Orleans, Mob. & Chie	39,000 8,075,200	12,800	
		See St. L.	12,699,500	l
	Ocala Northern			
	Ohio & Kentucky Ohio River & Columbus	501,000	425,600	
	Opelousas Gulf & N'e'st	1 421 475	1.143,000	ı
	Opelousas, Gulf & N'e'st. Orange & Northwestern.	See St 1	& S. F.	
	Pere Marquette	26,186,590	63,672,000	
	Pitts. Shawmut & Nor.	15,000,000	14,655,600	i
	Rome & Northern	1,000,000		
	St. Louis & San Fran		250, 199, 258	
	St L. Brownsville & Mex St Louis, San F. & Tex	(See St. L.	& S.F.	Ì
	Salt Lake & Mecur. San Ant., Fred. & Nor.	200,000	250,000	j
	San An . Uvalde & Gulf	230,000	3,663,000	
	San An., Uvalde & Gulf Sharpsville	350,000	0.000,000	
	Tennessee Railway	1,000,000	1.129,000	1
1	Tennessee Central	7.941.450	12,379,960	
	Texas Mexican	2,500,000	1,380,000	į
	Toledo, St. L. & Western.	19,947,600	28,027,000	l

abash, Chester & West

cannot	Cho con in the contract of the		
thwest-	Totals, Jan. 1, 1915	. \$434,599,738 1	\$830,728,790
es look stantial	Receiverships Sin	ce Jan. 1	, 1915.
well as			Total
be al-		Outstanding	funded
erity of	Algema Cent & Hudson	stock.	debt.
enthus-	Bay		\$10,080,000
fled, but	Atlantic Northern		100,000
is have	Boca & Loyalton		418,000
are of	Chicago, Rock Island &		
	Pacific	74,877,200	215,255,000
en such	Crooked Creek Railroad		
	& Coal Co	. 112,500	112,500
	Florida Railway		1.189,965
ers.	Inverness Railway &	8,750,000	8.452,000
eighty-	Coal Co	7,500,000	2.131.000
by re-	Kansas City, Ozark &		
	Southern		4-1-170-11
eage of	Missouri. Kansas &		
of \$2	Texas	75,300,300	120,073,000
	Missouri Pacific	83,251,085	161,910,500
Total	Pacific & Idaho North	2.929.800	1,816,006
funded	Western Pacific	\$7,779,800	123,119,600

Total Jan 1, 1915 8434,599,738 8830,728,79 Total since Jan 1, 1915 354,616,685 644,656,96 8788, 616, 423, 81, 475, 385, 757 "While the Southwest is worse than while the Southwest is worse than the rest of the country in regard to its railroad situation, figures for the entire United States make a far from good showing. Making a rough estimate based on the net operating income as shown by the figures compiled by the Bureau of Railway Economics for the fiscal year ended June 30, 1915, and the fiscal year ended June 30, 1915, and taking the capitalization of the railroad companies at the beginning of that fiscal year the net operating income of only between 40,000 and 45,000 miles of road will apparently show 6 per cent, or more on the total face value of outstanding

Total since Jan. 1, 1915 \$254,016,685 \$644,656,975

'In other words, the mileage of rail-"In other words, the mileage of railroads which are earning 6 per cent, or
better on the total of their securities
is only about as great as the mileage of
railroads which are bankrupt. Six per
cent, is not a sufficient return to hold
out to an investor to induce him to subscribe for stock, and yet nearly fivesixths of the mileage of railroads in the
United States will not show 6 per cent,
in 1915, according to our estimates."

The Fold confidence of the full details of the new process.

BEATEN AND ROBBED OF \$307.

Trensurer of Art Glass Firm Held Pp in Daylight.

A daylight robbers occurred shortly form non-confidence of the full details of the full Gowns WRAPS

Tailleur Costumes

No. 26 East 55th St. York

CHANCE FOR PUBLIC

Hearings Will Be Held Next Month in New York and Up-State Cities.

BILLS TO BE PREPARED

The public is to have an opportunity next month to present its opinion of the various plans being considered by the legislative committee now engaged in a study of the question how best to amend the State's tax laws. Following an executive session at his home, 9 East Eighty-fourth street, yesterday Senator Ogden L. Milis, the chairman, gave out

Orden L. Mills, the chairman, gave out the following statement:

"The committee decided to have the principal suggestions as to possible substitutes for the personal property tax put into the shape of definite bills and amendments to the present law. It is impossible to judge the merits or demerits of any plan, perfect though it may be in theory, until it has been worked out in all its details, and the committee before coming to any definite committee before coming to any definite or final conclusion desires the benefit which will accrue from a discussion and criticism of suggestions that have been made, when these have been reduced to concrete or definite shape.

"We hope to make these tentative plans public in the early part of November, and to hold further hearings both in New York city and in the principal

It is understood that the suggestions which will be presented in the form of bills for the consideration of taxpayers at meetings in various parts of the State are an income tax, a habitation tax and a classified personal property tax. Mr. ills repeated yesterday the statement that the committee is not committed to will make a personal inspection of the any plan in its effort to find a means prison. meeting the steadily increasing cost

The habitation tax would mean the payment by a house occupant of an amount determined by the assessed or rental value of the property. Occupants of apartment houses would be assessed according to the number of apartments in the building. Families whose rental does not exceed \$350 a year would be exempt, and it has been suggested be exempt, and it has been selected as inmate judge to succeed former Congressional William Willett of Queens country, who was forced to quit the court and go to Comstock prison for his own safety. Another judge, George Hodson, has also resigned since Willett was set upon for a decision here. be exempt, and it has been suggested that a stated exemption might also be granted for each child in a household. Some of the committee members are said to look with least favor on the classified personal property tax proposal. Its adoption would call for the filling out of blanks, setting forth in detail the nature of all classes of personal property. According to information received by the committee, such listing systems have proved unsatisfactory elsewhere.

All the members of the committee exsystems have proved unsatisfactory else-

cept Assemblyman Chace attended the executive session yesterday.

CENCI ESTATE TAX CUT.

other personalty. As one of the three man drawing room sleeping cars for executors, Donald Harper, is a resident of Asheville, arriving the following day at Paris, the others being Mr. Boardman 11:59 A.M.

Hampton Furniture

for My Lady's Boudoir

THE touch of feminine per-

intimate of rooms, devoted to the

frou-frou of silken skirts and the

sonality which should per-

vade the Boudoir, - most

The tax books were opened on October 1. In the two weeks since then the Tax Board has examined 1,268 persons on a tentative assessment of \$122,401,400 and has held 247 persons for an assessment of \$1,549,600. The proportion of assessments held is more than 1 per cent. If this rate holds good for the entire tentative necessarial

l per cent. If this rate holds good for the entire tentative personal assessment of \$3,700,000,000 the final assessment will be considerably larger than last year's, which was \$343,000,000.
Yesterday the Commissioners examined 111 persons and held 19. The possession of \$7,190,800 worth of personal property was ascribed to the 111 persons, but in the swearing off process the assessment shrank to \$218,350.

SING SING INQUIRY IS TO BEGIN WEDNESDAY

Prisoners Will Go to White Plains to Testify Before Grand Jury.

OSSINING, N. Y., Oct. 16 .- District At-

torney Weeks of Westchester county will begin his Grand Jury inquiry into the escapes of five convicts from Sing Sing prison sext Wednesday. The con-victs will be taken to White Plains probably and will be kept in the county jail there until the investigation is completed.

One of the principal escapes to be investigated will be that of Frederick Spence, sentenced for from twenty years to a life term for a murder in Manhattan. It is said that he was one of the honor men of the Mutual Welfare League and obtained extraordinary privileges, which gave him an opportunity to escape. It is believed that before the Grand Jury completes its work it

Dr. Rudolph Diedling of the Prison of State and city government.

The income tax project contemplates the imposition of a f per cent. tax on incomes between \$1.500 and \$2.500 and 2 per cent. tax on incomes exceeding of the prison, it is said, supplied him with much information, as the warden refused to let him question prisoners

some of the committee members are has stationed Hodson at the door to

NEW TRAIN SERVICE SOUTH.

Winter Resort Travel.

The Southern Railway will start a in Detective Patton.

and the United States Trust Company.
one-third of the estate that otherwise would be taxable had to be exempted

Franchise Committee Acted Without Thought, Says R. W. Meade.

IT MEANS 20 CENT FARE

cised the franchise committee of the Board of Estimate, made up of Mayor Mitchel, Aldermanic President McAneny and Borough President Mathewson of

providing the city with an adequate fled bus system and it winds up with two to the other company the people in many sections of the city will be compelled on frequent occasions to pay 20 cents to travel by bus to another discrict or else walk a long distance to board a bus which will take them directly to their destination. "The other company has offered a five

cent fare on certain crosstown lines and for a few short lines in the Washington Heights district, but we know that the number of passengers carried on these lines would be a drop in the bucket compared with the number in the entire cir cuit. The offer is simply a bait."

Mr. Meade called attention to the fact

for fifteen years.

He pointed out that the Fifth Avenue company possessed a great organization and equipment and was ready to start operating buses on many of the new routes almost immediately, while the

There have been thirteen robberies in the gymnasium locker since September Southern Railroad Arranges for 25, and Detective Charles Battalora, who suspected the young instructor and called

The Southern Railway will start a daily through limited express service between New York and Augusta and Aiken on Sunday, October 24. Passecutors of the will of Eleanor Lorillard Spencer Cenci, who was the widow of the Italian, Don Virginio Cenci, seventh and last Prince of Vicovaro.

The personal estate was tentatively assessed for \$1,000,000. Mr. Boardman showed that the amount of taxable securities was \$314,000, in addition to other personalty. As one of the three

STIR COACH HEAD

R. W. Meade, president of the Fifth MARACAIBO Avenue Coach Company, strongly critithought." Mr. Meade charged that the committee recommended that a franchise be granted to the New York Motor Bus Company to run cars over thirty-one miles of city streets without first weighing the proposition made by his company.

"This franchise committees studying for the proposition of the pro pany.
"This franchise committee has been studying for three years the problem of

Mr. Meade called attention to the fact that his company had offered the city \$775,000 for fifteen years operation on ten miles of street less than the other company. The Motor Bus company's guaranteed payment was \$50,000 less than that of the Fifth Avenue company

Motor Bus company has agreed to have Y. M. C. A. MAN HELD AS THIEF

Instructor in Gymnasium Arrested on Robbery Charge. George S. Lewis, 25, an instructor in

the gymnasium of the Bedford branch of the Y. M. C. A. in Brooklyn, was charged yesterday with grand larceny by Detective George E. Patton in the Gates avenue court and was held in \$1,500 bail by Magistrate Voorhees for examination on Tuesday. Bail was furnished by Christian C. Horn, a saloon keeper at 1086 Madison street.

PARK and TILFORD

The finest **COFFEES**

At unequaled Prices PLAZA

of fragrance and fine flavor at most attractive prices India and Ceylon, per lb. pkg. .50 .60 1/2 lb. pkg. .28 .35

Orange Pekoe Ceylon, Per lb. Pkg... .50 .60 .80 ½ lb. Pkg... .28 .35 .45 English Breakfast, Per lb. Pkg. . .60 .75 .90 12 lb. Pkg. . . .33 .40 .50

Formosa Oolong, Per lb. Pkg. . .50 .75 1.00 1₂ lb. Pkg. . .28 .40 .55

Finest Creamery, per Ib...... 35 Creamery Butter, per lb...... .32 **EGGS** Strictly Fresh Hennery...... .59 (Neither cold storage butter nor eggs

sold in our stores.)

OLIVE OIL-Finest quality Pure Lucca, Italian, Park & Tilford can 1 gal. cans..... 3.10 Pure French, Park & Tilford Pint cans Quart cans..... 2 gal. cans..... 1.75 1 gal. cans..... 3.25 Manzanilla, Gulden's Stuffed

Queen, Don Carlos, 514 oz. 1.15 .10 Queen, Paul Trudelle, 16 oz. 3.10 .28 icen. Paul Trudelle, 261 oz. 5.00 .42 Brillat's Selected Luncheon Stuffed with peppers, 11 oz. 2.75 .25 Ripe California, Ehmann's x 8 oz. 3.75 .35

xx 16 oz. 6.75 .58 xxx 16 oz. 8.75 .75 FLOUR

Pillsbury, 2412 lb. bags....... .85 SUGAR H.&E.FineGranulated, 10lb.bags 1.27 H.&E.FineGranulated, 25lb.bags 1.27 SARDINES Norwegian Smoked...... 1.40 .12 Finest French boneless:—

Paul Trudelle 14 cans.... 3.50 .30 Paul Trudelle 12 cans ... 4.65 .40 Portuguese Boneless 12 cans 2.35 .20 SAUCES Worcestershire L. & P., 534 oz. Blue Label Tomato Catsup, 16oz. bots. Chili Sauce, Snider's 16 oz, bots. Tomato Catsup, Snider's, 16 oz.

bots. CEREALS , Puffed Wheat, Quaker Rolled Oats, Quaker Farina, Hecker's SOAPS and SOAP POWDERS

Babbit's Soap, 7 cakes for Kirkman's Borax Soap, 7 cakes for Gold Dust, 4lb. cartons18 GIN-Park & Tilford Bottling Dry, Square bottles ... 8.25 .70 Old Tom, Square bottles ... 8.25 .70

WHISKEY, Park & Tilford bottling
 Corn, Rye and Malt
 gal. ber.

 Old Cumberland Rye
 4.50 1.00

 Special Rye
 1.25

 Private Stock Rye
 6.00 1.50

 Monogram Rye

Wise's Irish CALIFORNIA WINES Zinfandel Claret, P. & T.

Bottling, case of 12 bots, 3.74 .32 case of 24 \(\frac{1}{2} \) bots, 4.49 .21 Riesling, case of 12 bots. 3.99 case of 21 12 bots. 4.99 .26 Port, Extra Quality, l gal. glass jars lg gal. glass jars Sherry, Extra Quality, I gal, glass jars

(No charge for containers.) Guinness's Foreign Extra Stout Bottled and matured by

12 gal. glass jars

Park & Tilford

Bottles, per dozen ... 1 40 Splits, per dozen

Deliveries by our own autos da Westchester as far as Tarrytown. White Plains and Portchester. On Long Island, deliveries twice weekly as far as Oyster Bay, Hempstead and Wheatley Hills.

STORES IN NEW YORK Fifth Avenue and 26th Street Madison Ave. and 58th Street

Madison Ave. and 76th Street Broadway and 41st Street Broadway and 87th Street Broadway and 101st Street Broadway and 112th Street Broadway and 146th Street Columbus Ave. 72nd Street Lenox Ave. and 126th Street

Send for complete ca 529-549 West 42nd Street, New York

